

B1
cont.

(A) a step of forming a pair of electrodes on a substrate;

(B) a step of forming a film so that the film connects the pair of electrodes; and

(C) a step of forming a gap at the film provided between the pair of electrodes and of forming at least one of amorphous carbon and graphite at a portion of the film facing the gap and in the vicinity of the gap by applying a voltage between the electrodes,

wherein step (B) comprises a step of forming a film comprising a polymer.

18. (New) A method according to Claim 17, wherein the polymer is an all-aromatic polymer.

19. (New) A method according to Claim 17, wherein the polymer is any one of polyimide, polybenzimidazole, polyamideimide, and polyacrylonitrile.

20. (New) A method according to Claim 17, wherein the film comprising the polymer further comprises an electroconductive material.

21. (New) A method according to Claim 20, wherein the electroconductive material is graphite.

22. (New) A method according to Claim 17, wherein the film comprising the polymer is formed by an ink-jet method.

23. (New) A method for manufacturing an electron source comprising a plurality of cathodes, wherein said cathodes are manufactured by the method according to Claim 17.

24. (New) A method for manufacturing an image forming apparatus having an electron source and a light emitting member, wherein said electron source is manufactured by the method according to Claim 23.--

REMARKS

Claims 17-24 are now pending in this application, and have been added to provide Applicants with a more complete scope of protection. Claim 1 has been canceled without prejudice and without disclaimer of subject matter.

Favorable consideration and early passage to issue of the present divisional application are respectfully requested.

Applicants' undersigned attorney may be reached in our New York office by